

applying the wound-treatment product in the solution state to a necrosis or wound; and

changing the state of at least a portion of the product from the solution state to the gel state.

18. The method of claim 17, further comprising liquefying that portion of the product proximate to the wound or necrosis by at least one of application of an external force, body heat, or ionic strength.

19. (new) The method of claim 18, further comprising changing the state of the product from the solution state to the gel state following liquefying the product.

20. The method of claim 17, further comprising attaching the aliphatic chains to the polysaccharide macromolecules with an ionic or covalent chemical bond.

21. (new) The method of claim 17, further comprising attaching the aliphatic chains to the polysaccharide macromolecules with a covalent ester bond.

22. (new) The method of claim 17, wherein the aliphatic chains are aliphatic amines, which form ionic bonds with carboxylate groups on the polysaccharide macromolecules.

23. (new) The method of claim 17, further comprising associating aliphatic chains on one polysaccharide macromolecule with aliphatic chains on a second polysaccharide macromolecule to form the gel state.

24. (new) The method of claim 23, further comprising associating aliphatic chains attached to different polysaccharide macromolecules forming physical bonds between aliphatic chains.

25. (new) The method of claim 17, wherein the aliphatic chains have at least about six carbon atoms.

26. (new) The method of claim 17, wherein the polysaccharide macromolecule is an alginate.

27. (new) The method of claim 17, further comprising reacting polysaccharide molecules, each polysaccharide molecule having a single attachment group, with aliphatic chains, each aliphatic chain having a single attachment group, to attach the aliphatic chains to the polysaccharide macromolecules.

28. (new) The method of claim 27, further comprising ionizing the attachment group on the aliphatic chains.

29. (new) The method of claim 28, wherein the attachment group is an aliphatic amine.

30. (new) The method of claim 27, further comprising reacting the aliphatic chains and the polysaccharide macromolecules in a water-alcohol solution.

31. (new) The method of claim 17, further comprising pouring the product in the solution state onto the wound or necrosis, and allowing the product to set into the gel state.

32. (new) The method of claim 31, liquefying that portion of the gel in contact with the wound or necrosis.

33. (new) The method of claim 17, wherein the gel state is alveolar, having alveoli having walls.

34. (new) The method of claim 33, further comprising trapping at least one active principle within the alveoli.

*35. (new) The method of claim 33, further comprising trapping living cells within the alveoli.*

#### **REMARKS**

New claims 17 to 35 appear in this application for the Examiner's review and consideration. Claims 1 to 16 have been canceled without prejudice to Applicant's right to file one or more continuation or divisional applications directed to the subject